



NEW

Clegg **99'er**

AMATEUR NET \$139.95

A Compact Top Quality 6 METER TRANSCEIVER

When Clegg Laboratories first decided to run an entry in the low-priced six-meter transceiver sweepstakes, it was with the full realization that the competition would be keen. To run a succesful race, our entry would not only have to live up to the reputation of its illustrious Climaster forebears but would also have to outperform the products of competent engineering by other manufacturers.

With these goals for incentive Clegg engineers attacked the project in earnest. Suiting new circuitry to outstanding new components, the resulting "99'er", created by and for active hams, includes all those design and operating features so necessary for both outstanding fixed station and mobile performance on the crowded 6 meter band.

*with 12 free
crystals*

PERFORMANCE DATA

RECEIVER

Compared with other low-cost transceivers which employ super-regenerative or single conversion super-het receivers, the "99'er" is equipped with a double conversion super hetrodyne receiver that utilizes 10 selective tuned circuits for unmatched sensitivity, selectivity, image rejection and minimum cross modulation.

An overall noise figure of less than 4.5 db, plus a built-in noise limiter of extreme effectiveness, make it easy to read the weak ones. A large calibrated S meter accurately indicates strength of incoming signals. A spotting switch on the panel indicates transmitter frequency.

TRANSMITTER

Superior transmitter performance results from the use of a fundamental 8 MC crystal which doubles in the oscillator and triples to 50 MC in the following stage. This in turn drives a 7558 power amplifier to maximum efficiency. The oscillator stage is broad-banded so that crystals of 8, 12, 16 or 24 MC can be used. High level modulation of the plate and screen assures a fully modulated carrier which is transferred to the antenna through a flexible pi network tank circuit.

Clegg LABORATORIES

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TECHNICAL INFORMATION

In planning the "99'er", Clegg engineers placed major emphasis on providing those features so necessary to both fixed and mobile operation on six meters.

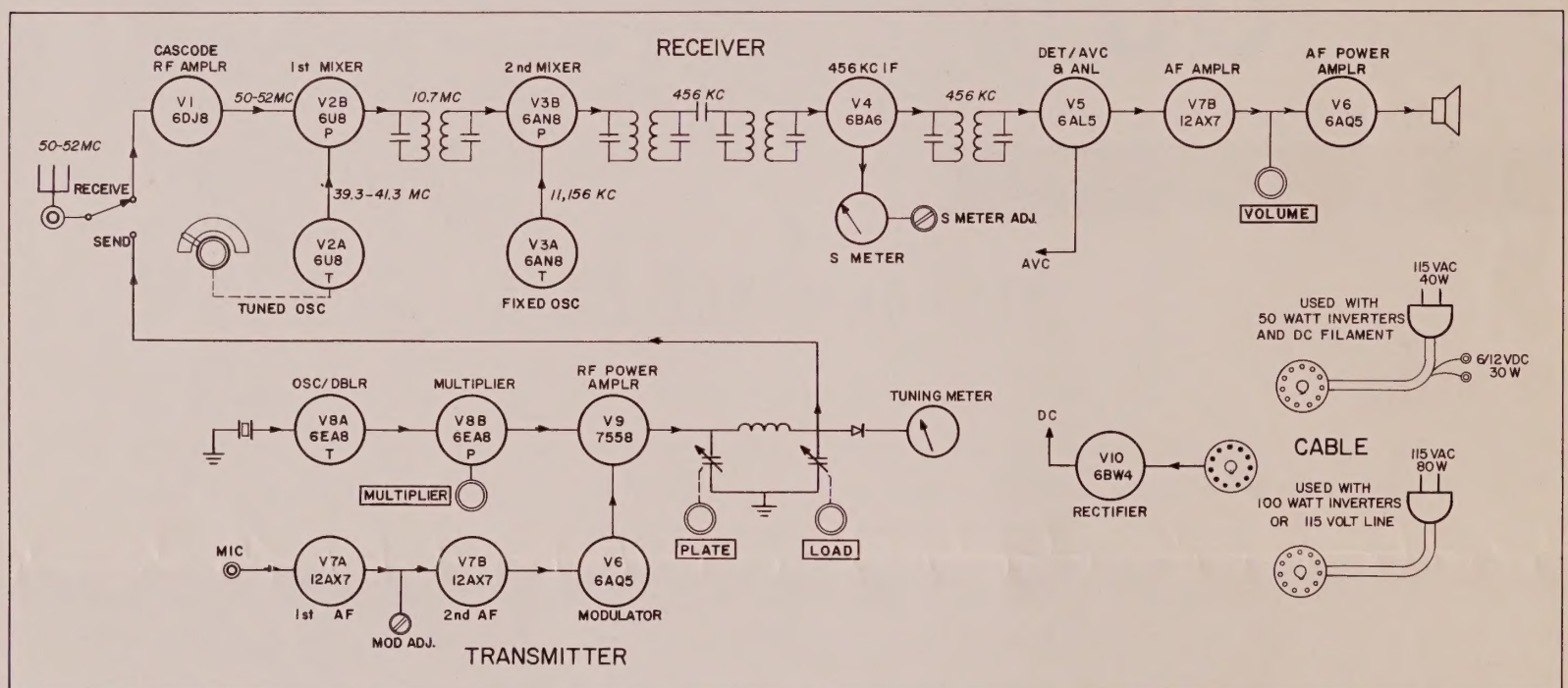
These features include "rock" stable operation of the transmitter, either by xtal or by most stable commercial 6 meter VFO's, maximum TVI suppression, high level 100% modulation without splatter, continuous headphone monitoring of the signal, a transmitter frequency spotting switch, a high efficiency 8 watt 7558 final (between 5 and 6 watts output) and a pi-network final tank circuit. The receiver S meter also serves as a tuneup meter for the transmitter. A multiple contact socket at the rear of the chassis provides for external speaker and VFO connections.

The supersensitive double conversion super-het receiver utilizes ten individually tuned circuits to provide amazing selectivity and remarkable freedom from images and cross modulation. Exceptional electrical bandspread is further enhanced by the use of a large calibrated 5 to 1 ratio vernier driven tuning dial.

Frequency coverage of the receiver is limited to the 50 to 52 MC range, as there is virtually no band occupancy above 52 MC. This arrangement makes possible exceptional electrical bandspread and ease of tuning, particularly during contests and other periods of heavy band activity.

Units for full coverage of 50-54 MC are available on special order at no additional cost.

For mobile operation either a 50 or 100 watt inverter may be used. If a 50 watt unit is used it is necessary to draw filament current directly from the car battery. Provision for this is made in an 11-pin socket at the rear of the chassis. Where a 100 watt inverter is used the regular cable provided with the unit should be used. Tube complement and functions (not including power supply) are shown in the block diagram below.



6DJ8 cascode RF amplifier, 6U8A combined mixer and high stability tuned oscillator, 6AN8 second mixer, 6BA6 low frequency IF amplifier, 6AL5 automatic noise limiter, second detector and AVC, 12AX7 microphone preamplifier and first audio stage, 6AQ5 audio power amplifier and high level modulator. $\frac{1}{2}$ 6EA8 oscillator multiplier, $\frac{1}{2}$ 6EA8 multiplier to 50 MC drives 7558 final RF power amplifier.

PHYSICAL:

- 1) Microphone input jack — standard phono
Output jack — VHF type co-ax #SO-239
- 2) Dimensions: 10" wide x 6" high x 8" deep
- 3) Weight: 14 pounds
- 4) Shipping weight: 17 $\frac{1}{2}$ pounds

AVAILABLE THROUGH YOUR DISTRIBUTOR

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